

**U.G. 6th Semester Examination-2025****BOTANY****[HONOURS]****Discipline Specific Elective (DSE)****Course Code : BOT-H-DSE-T-03B****(Coastal Biology)****Full Marks : 40****Time : 2½ Hours***The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any five from the following : 2×5=10
- a) Mention the names of any two types of coastal zone ecosystems.
  - b) Mention two distinct characters of mangroves that help them to adapt in saline environment.
  - c) Name two Hotspots of coastal biodiversity in India.
  - d) Mention two economic values of coastal ecosystems.
  - e) What are Red Tides? Name the group of organisms responsible for this phenomenon.

*[Turn Over]*

- f) Name two edaphic factors that influence coastal zone agriculture.
  - g) Name two major threats perceived in coastal zone stability.
  - h) What is the significance of tides in coastal soil-water relation?
2. Answer any two from the following:  $5 \times 2 = 10$
- a) Give an account of different types of coastal zones in India.
  - b) Highlight the key threats to the biological components of coastal zones.
  - c) Mention the steps in ecological restoration activities in coastal zone management.
  - d) Discuss any two impacts of anthropogenic activities on coastal ecosystem.
3. Answer any two from the following:  $10 \times 2 = 20$
- a) Give an explanatory account of the role of microbes in food chain.
  - b) Write an explanatory note on eutrophication in coastal zones.
  - c) Enumerate the role of ICZM in coastal zone monitoring and also in ensuring sustainability.
  - d) Discuss on agricultural practices in coastal zones by giving suitable examples of cultivated crops and how the salinity affects the crop productivity.